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[A new approach to the word and conjugacy problems in the braid groups](#)[arxiv.org](#) [PDF]J Birman, KH Ko, SJ Lee · *Advances in Mathematics*, 1998 · Elsevier

... We also give a related solution to the **conjugacy problem**, but the improvements in its complexity are not clear at this writing. References. 1. SI Adjan, Defining relations and algorithmic **problems** for groups and semigroups. Proc. ... 9. FA Garside, The **braid group** and other groups. ...

[Cited by 245](#) · [Related articles](#) · [All 15 versions](#)[The braid group and other groups](#)FA Garside · *Quart. J. Math. Oxford*, 1969 · Oxford Univ Press

... THE **braid group**  $B_{n+1}$  was first defined by Artin in a paper published in 1926 (1). The word **problem** for the **group** was solved ... The primary concern will be to give the solution of the **conjugacy problem** in  $B_{n+1}$ . A new solution of the word **problem** is also given, and a new ...

[Cited by 306](#) · [Related articles](#) · [All 3 versions](#)[\[PDF\] An algebraic method for public-key cryptography](#)[psu.edu](#) [PDF]I Anshel, M Anshel, D Goldfeld · *Mathematical Research Letters*, 1999 · Citeseer

... An example is the **braid group** on  $n$  strands where the word **problem** for a word  $w$  (of length  $|w|$ ) can be solved in running time  $O(|w| 2^n)$  while the best known algorithm for solving the **conjugacy problem** requires at least exponential running time (see [2]). Recent developments ...

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... was introduced for constructing key ag- reement protocols based on combinatorial **group** theory, the ... security of the protocols was based on the difficulty of solving **conjugacy** and commutator ... **Braid** groups provide a thread linking combinatorial **problems** in knot theory [10] to ...

[Cited by 63](#) · [Related articles](#) · [BL Direct](#) · [All 4 versions](#)[Conjugacy problem for braid groups and Garside groups](#)[arxiv.org](#) [PDF]N Franco, J Gonzalez-Meneses · *Journal of Algebra*, 2003 · Elsevier

... MathSciNet. [11]. FA Garside, The **braid group** and other groups. Quart. ... Full Text via CrossRef.

[13]. J. Michel, A note on words in **braid** monoids. *J. Algebra* 215 (1999), pp. ... [15]. M. Picantin,

The **conjugacy problem** in small Gaussian groups. Comm. Algebra 29 3 (2001), pp. ...

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A practical attack on some **braid group** based cryptographic primitives

[psu.edu](#) (PDF)

D Holte, R Steinwandl - Lecture notes in computer science, 2602 - Springer

... So we eventually obtain an algorithm for the **conjugacy problem** in the **braid group**  $B_n$ : given

$v, w \in B_n$ , we compute  $S(v)$  and one element  $w$  of  $S(w)$ . Then  $v$  and  $w$  are **conjugate** iff  $w \in$

$S(v)$ . This approach cannot only be used to decide whether  $v$  and  $w$  are conjugated; it can ...

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New public-key cryptosystem using **braid groups**

[psu.edu](#) (PDF)

KH Ko, SJ Lee, JH Cheon, JW Han, J Kang, C ... - Lecture Notes in ..., 2000 - Springer

... design. Key words: public key cryptosystem, **braid group**, **conjugacy problem**, key

exchange, hard **problem**, non-commutative **group**, one-way function, public key

infrastructure 1 Introduction 1.1 Background and Previous Results ...

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A POLYNOMIAL INVARIANT FOR KNOTS VIA VON NEUMANN ALGEBRAS I

[mathaware.org](#) (PDF)

VFR Jones - AMERICAN MATHEMATICAL SOCIETY, 1985 - ams.org

... union of the **braid groups**. Unfortunately, although the **conjugacy problem** has been

solved by F. Garside [8] within each **braid group**, there is no known algorithm to

decide when  $(6, n)$  and  $(c, m)$  are equivalent. For a proof of ...

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The **conjugacy problem** in small Gaussian groups

M Picantin - Communications in Algebra, 2001 - Citeseer

... We show here how to extend the Elrifai-Morton solution for the **conjugacy problem** in **braid groups**

to every small Gaussian **group**. ... We show here how to extend the Elrifai-Morton solution for the

**conjugacy problem** in **braid groups** to every small Gaussian **group**. Citations. ...

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A polynomial time algorithm for the **braid** Diffie-Hellman **conjugacy problem**

[psu.edu](#) (PDF)

JH Cheon, B Jun - Advances in cryptology-CRYPTO, 2003 - Springer

... Keywords: **Braid group**, Non-abelian **group**, **Conjugacy Problem** 1 Introduction ... Their

basic mathematical **problem** is the **Conjugacy Problem** (CP) on **braids**: For a **braid group**

$B_n$ , we are asked to find a **braid**  $a$  from  $u, b \in B_n$  satisfying ...

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